

FIG. 1

FIG. 2

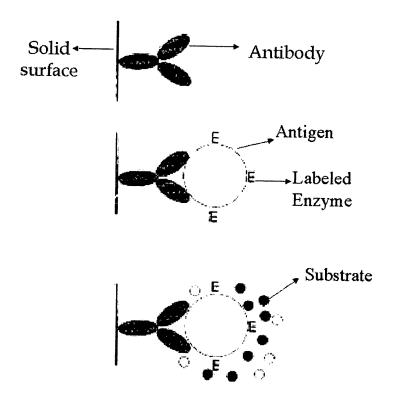


FIG. 3

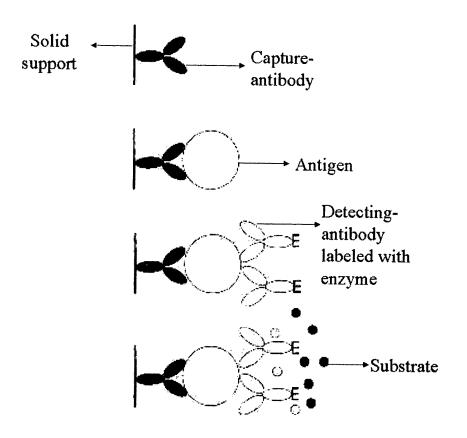
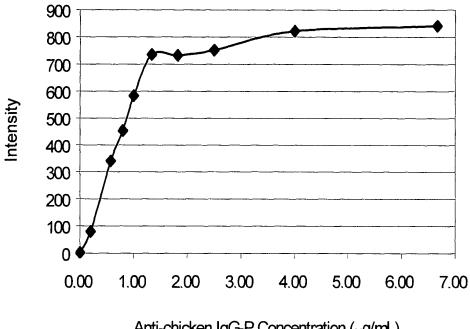


FIG. 4



Anti-chicken IgG-P Concentration ( $\mu$ g/mL)

FIG. 5

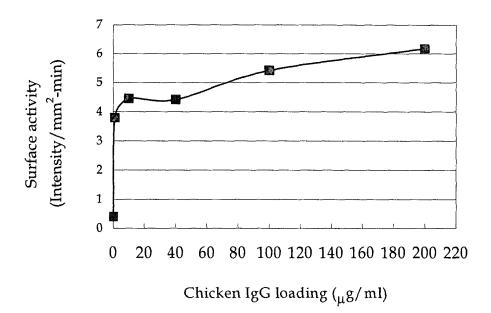
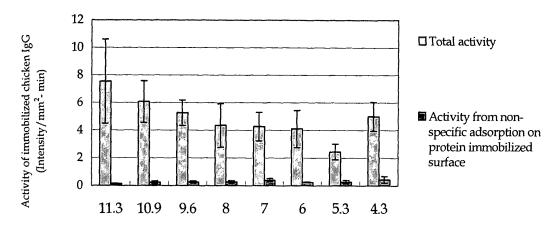


FIG. 6



pH value of antibody solution (chicken IgG and sheep IgG)

FIG. 7

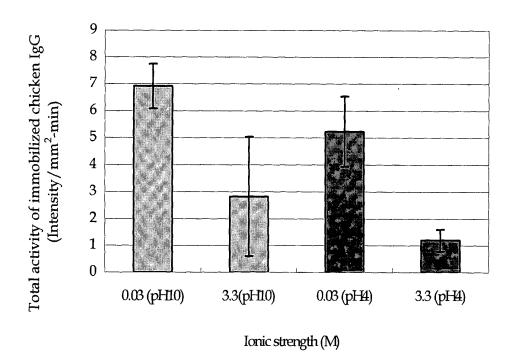


FIG. 8

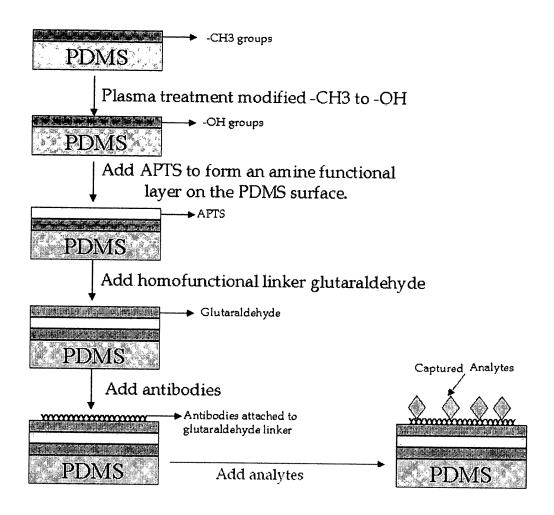


FIG. 9

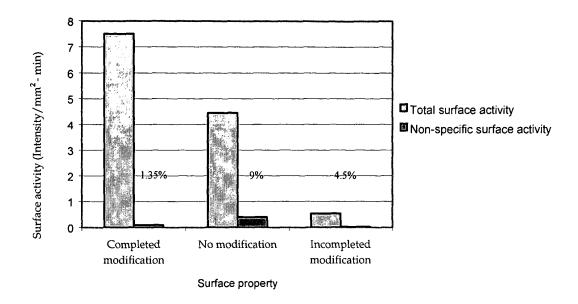


FIG. 10

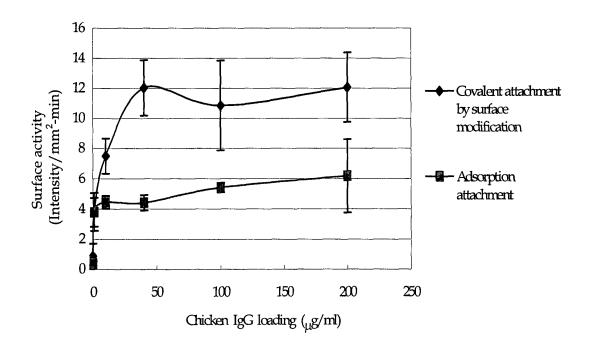


FIG. 11

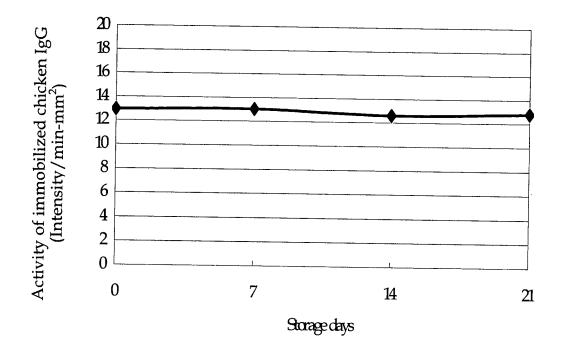


FIG. 12

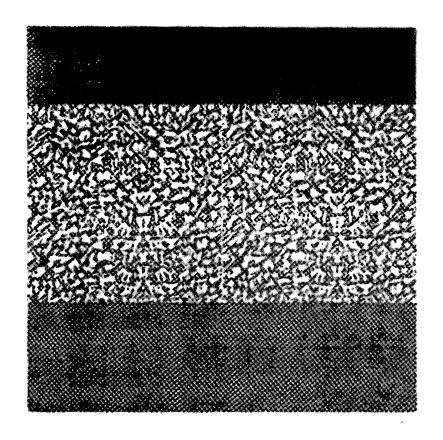
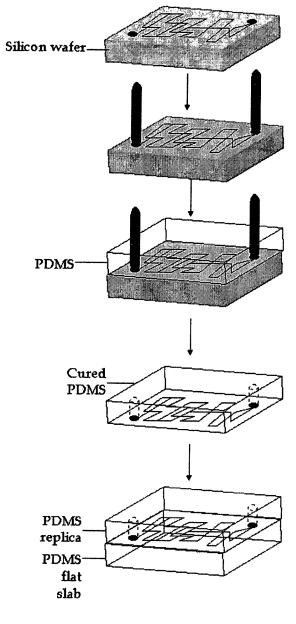


FIG. 13



- 1. Silicon mold fabricated by photolithography processes.
- 2. Plastic posts were placed on the wafer to define the input and the output of the sample.
- 3. A prepolymer of PDMS was cast onto the silicon and cure at 60 C for 3 hours.
- 4. The PDMS replica of the mold containing a negative relief of the channels was peeled away from the silicon wafer, and the posts were removed.
- 5. The PDMS replica with channel pattern and a flat PDMS slab were treated in a plasma discharge for 1 min. Two plasma treated PDMS surfaces were brought to conformal contact and an irreversible seal formed between them.

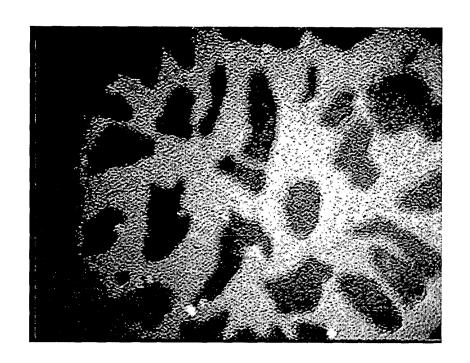


FIG. 15

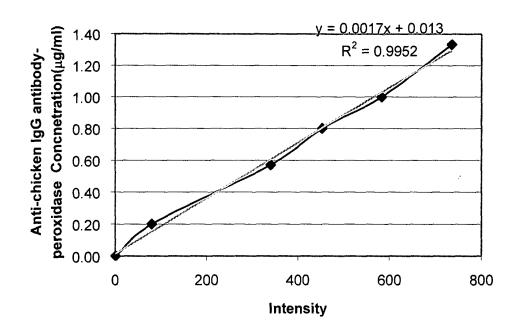


FIG. 16

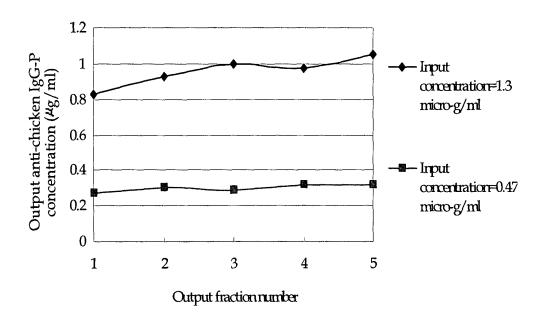


FIG. 17

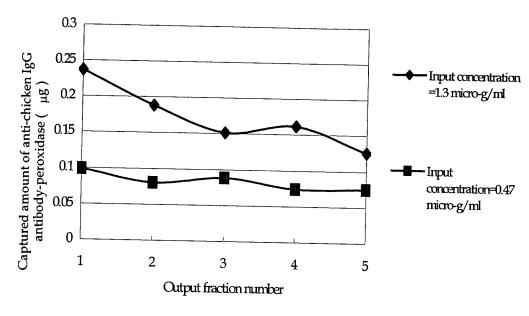


FIG. 18

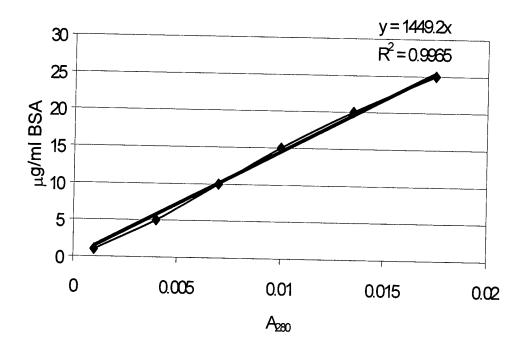


FIG. 19

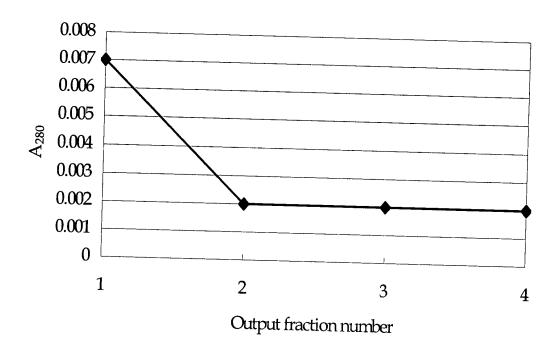
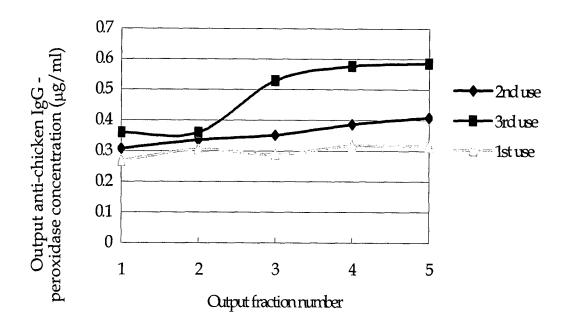


FIG. 20



τ. .... 0

FIG. 21

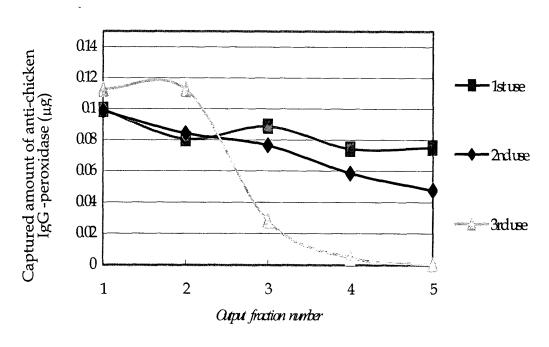


FIG. 22